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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/541,771	11/30/2005	Walter Gerhard	WSTR-0017K	6044
26259 LICATA & TY	7590 04/01/200 RRELL P.C.	EXAMINER		
66 E. MAIN ST		MOSHER, MARY		
MARLTON, NJ 08053			ART UNIT	PAPER NUMBER
			1648	
			NOTIFICATION DATE	DELIVERY MODE
			04/01/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

poreilly@licataandtyrrell.com

	Application No.	Applicant(s)
	10/541,771	GERHARD ET AL.
Office Action Summary	Examiner	Art Unit
	Mary E. Mosher, Ph.D.	1648
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
 1) Responsive to communication(s) filed on 11/7/2 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allowant closed in accordance with the practice under E 	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 1-15 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-15 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access	relection requirement. r. epted or b)□ objected to by the B	
Applicant may not request that any objection to the one of the correction and the correction are corrected as a second correction and the correction are corrected as a second correct of the correction are corrected as a second correct of the correction are corrected as a second correct of the correction are corrected as a second correct of the correction are corrected as a second correct of the correction are corrected as a second correct of the correction are corrected as a second correct of the correction are corrected as a second correct of the correction are corrected as a second correct of the correction are corrected as a second correct of the correction are corrected as a second correct of the correction are corrected as a second correct of the correct o		
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of 	s have been received. s have been received in Applicati ity documents have been receive ı (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 7/8/2005.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte

Application/Control Number: 10/541,771 Page 2

Art Unit: 1648

DETAILED ACTION

Election/Restrictions

Applicant's election with traverse of R1= Cys-Gly, R2 = influenza T cell determinant, R3= influenza B cell determinant, R4=absent because Xaa1 = 0, R5=Ala, in the reply filed on 11/07/2007 is acknowledged. The traversal is on the ground(s) that the general inventive concept is combining multiple T cell determinants and B cell determinants on the same antigen construct, achieving a prompt and strong immune response which is not taught or suggested by the prior art. This is not found persuasive because this argument involves limitations not found in the main claim, which states that R2, R3, and R4 are independently a B cell determinant, a T cell determinant, or targeting molecule. Therefore the main claim encompasses a multiple antigenic agent with three B cell determinants, three T cell determinants, or three targeting molecules.

The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Kragol et al (Bioorganic & Medicinal Chemistry Letters 11:1417-1420, 2001, cited in IDS). See Scheme 1, constructs 2 and 7.

Art Unit: 1648

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kragol et al (cited above). Claim 4 is drawn to a composition comprising the compound of claim 1 and a pharmaceutically acceptable carrier. Kragol teaches the compound, but is silent upon the other ingredients combined with the purified compounds. However, Kragol explicitly suggests use of the products "for immunological studies", page 1420. Since immunological studies are frequently performed using pharmaceutically acceptable carriers, this modification is seen as prima facie obvious, absent unexpected results.

Claims 5-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kragol et al as applied to claims 1-4 above, and further in view of Neirynck et al (Nature Medicine 5:1157-1163, 1999, cited in IDS). These claims differ from the above in requiring an adjuvant, or a vaccine, or a method for treating or preventing viral infection such as influenza type A. However, Neirynck teaches that the M2e antigen sequence used in Kragol is an effective immunogen for preventing influenza, when presented on a carrier molecule, with or without an adjuvant. One would reasonably have expected similar success using the same antigen presented on the alternative carrier of Kragol. Therefore, the invention as a whole is prima facie obvious, absent unexpected results.

Art Unit: 1648

Double Patenting

Page 4

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-15 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-16 of copending Application No. 11/910025. Although the conflicting claims are not identical, they are not patentably distinct from each other because the current claims are encompassed by the slightly broader copending claims (which have a slightly broader definition of Xaa1).

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Although the species elected for examination in this application is distinct from the species claimed in copending allowed application 11/093107 (particularly because

Art Unit: 1648

of the mutually exclusive choices for Xaa1), applicant should note that double patenting issues may arise in future prosecution, particularly if a generic claim should become allowable during prosecution of this application.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mary E. Mosher, Ph.D. whose telephone number is 571-272-0906. The examiner can normally be reached on varying dates and times; please leave a message.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bruce Campell can be reached on 571-272-0974. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Mary E Mosher, Ph.D./ Primary Examiner, Art Unit 1648